# Tetra Tech EM Inc.

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7932 Nieman Road ♦ Lenexa,KS 66214 ♦ (913) 894-2600 ♦ FAX (913) 894-6295

**REC'D** 

September 17, 1998

SEP 18 1998

RCAP

Mr. Ken Herstowski U.S. Environmental Protection Agency, Region 7 RCRA Compliance Section 726 Minnesota Avenue Kansas City, KS 66101

**Subject:** 

**Trip Report for Sample Collection Activities** 

at the Union Pacific Railroad Facility, Omaha, Nebraska Contract No. 68-W4-0004, Work Assignment No. R07040

Dear Mr. Herstowski:

Tetra Tech EM Inc. (Tetra Tech) is submitting one copy of the trip report for sample collection activities at the above-referenced facility. The enclosed trip report details the sampling activities performed by Tetra Tech, and Tetra Tech's subcontractor, Plains Environmental Services. These sampling activities were conducted to verify if solid waste management units and areas of concern identified during the Resource Conservation and Recovery Act Facility Assessment have released any hazardous constituents to the environment.

If you have any questions or comments regarding this trip report, please call Ms. Paige Marret at (913) 495-3919 or me at (913) 495-3915.

Sincerely,

Keith A. Brown

**Environmental Scientist** 

Enclosure

cc:

Aaron Zimmerman, U.S. EPA-RPO (Cover letter only)

Kathy Homer, Tetra Tech Regional Manager (Cover letter only)

Paige Marett, Tetra Tech

#### TRIP REPORT

# UNION PACIFIC RAILROAD FACILITY OMAHA, NEBRASKA

#### **PURPOSE**

Tetra Tech EM Inc. (Tetra Tech) conducted sampling activities at the Union Pacific Railroad (UPRR) facility in Omaha, Nebraska on August 23 through 26, 1998. The purpose of the sampling activities was to verify if specific solid waste management units (SWMU) and areas of concern (AOC) have released any hazardous constituents to the environment. Sampling activities consisted of Tetra Tech collecting groundwater samples and measuring static water levels (SWL) from existing on-site monitoring wells, and collecting surface soil samples. Plains Environmental Services (PES) was subcontracted by Tetra Tech to collect soil gas, soil, and groundwater samples with the use of a Geoprobe®, and to analyze the samples on site for volatile organic compounds (VOC). Woodward-Clyde personnel conducted oversight of the sampling activities and obtained split samples of specific groundwater and surface soil samples collected by Tetra Tech, on behalf of UPRR. Specific samples collected by PES and all samples collected by Tetra Tech were submitted to the U.S. Environmental Protection Agency (EPA) Region 7 laboratory for analysis on August 26 and 27, 1998.

### FIELD WORK

Tetra Tech personnel who were present on site during the sampling activities consisted of the following: Mr. Curt Enos, team leader; Mr. Keith Brown, sampler and on-site health and safety officer; Ms. Teri Pham, sampler; Mr. Jim Dunajcik, sampler; and Mr. David Farnam, sampler. The EPA work assignment manager (WAM), Mr. Ken Herstowski, was also present on site during the sampling activities on August 24 and 25, 1998. Woodward-Clyde personnel present on site during the sampling activities consisted of: Mr. Jeff Smith; Mr. Robert Mallisee; and Mr. Jeff Hopkins. All field work was documented in three separate logbooks. Copies of the logbooks are included in Attachment A.

Tetra Tech arrived on site at 4:30 p.m. on August 23, 1998, and flagged the subsurface sampling locations that would need utility clearance verification. Tetra Tech returned to the site on August 24, 1998 and met with EPA, UPRR, and Woodward Clyde personnel next to the Wheel Shop at 8:00 a.m. Mr. Enos and Ms. Pham showed UPRR utility locators the tentative subsurface sampling locations. All subsurface sampling locations were cleared by UPRR personnel prior to sampling. Mr. Brown and Mr. Herstowski located the monitoring wells to be sampled while Mr. Dunajcik and Mr. Farnam obtained the drums that were placed next to each well to be sampled. One 55-gallon polyethylene drum was left next to each monitoring well to contain purge water. PES arrived on site at 12:30 p.m. on August 24, 1998. Mr. Enos and Ms. Pham provided oversight for the Geoprobe® sampling and onsite analyses.

Tetra Tech collected 15 groundwater samples, including one duplicate, from 14 monitoring wells. The sampling locations are shown on Figure 1 in Attachment B. Prior to sampling, total well volumes were calculated after measuring the SWL and total depth of each well. A minimum of three well volumes was purged from each monitoring well with the use of a disposable bailer. Water quality parameters (temperature, pH, and conductivity) were recorded on each well volume with a HyDAC 910 meter while purging each monitoring well. Samples were not collected until all water quality parameters were stabilized to within 10 percent of the previous recording. Final water quality parameters for each monitoring well are shown on Table 1. Tetra Tech filled two 40-milliliter (mL) vials, one 1-liter cubitainer, one 1-gallon amber jug, and one 1-liter amber jar for volatiles, metals, pesticides and semivolatiles, and extractable petroleum hydrocarbons analyses, respectively, for each monitoring well sample. The samples were then labeled and placed in an ice-filled cooler. Field sheets were completed for each sample. Woodward-Clyde collected split samples from three monitoring wells (MW-L, MW-10, and MW-4). Only nondisposable sampling equipment was used to collect the monitoring well samples. In addition to the monitoring well sampling, Tetra Tech recorded the SWL of most of the remaining on-site monitoring wells. A groundwater contour map will be developed and included with the data summary under separate cover.

Tetra Tech collected seven surface soil samples including one duplicate and one equipment rinsate from 0 to 2 feet below ground surface (bgs). The sampling locations are shown on Figure 1 in Attachment B. Each surface soil sample represents a 5-point composite sample with the exception of the sample collected around the former transformer pad at SWMU 4, which consisted of a 4-point composite. All

TABLE 1

FINAL WATER QUALITY PARAMETERS UPRR FACILITY, OMAHA, NEBRASKA

MONITORING WELL	pН	CONDUCTIVITY (µmhos)	TEMPERATURE (°F)
MW-Q	6.92	1795	61.1
MW-U	6.16	2510	67.0
MW-17	6.32	1351	73.4
MW-Y	6.29	4350	66.5
MW-L	7.10	1450	65.5
MW-10	7.16	576	68.8
10	7.11	1176	61.2
MW-01	7.81	511	74.5
MW-11	6.90	695	62.4
MW-06	7.14	932	64.2
MW-15	6.91	914	61.4
MW-04	6.77	722	
MW-03			
MW-M			

## Notes:

 $\mu$ mhos

Micromhos

°F

Degrees Fahrenheit

No measurement collected; the water quality meters were not functioning properly.

surface soil samples were collected with the use of a stainless-steel bucket auger. The soil was placed in an 8-quart stainless-steel bowl, homogenized with a large stainless-steel spoon, and placed in 8-ounce glass jars. The samples were then labeled and placed in an ice-filled cooler. Field sheets were completed for each sample. Three of the seven samples collected were submitted for pesticide/polychlorinated biphenyls (PCB) analysis. The other four samples, including the duplicate and equipment rinsate, were submitted for pesticide/PCB, semivolatiles, and metals analyses.

Woodward-Clyde collected split samples from three locations (SWMU 20 (north pit), SWMU 21 (south), and SWMU 4). All nondisposable sampling equipment was decontaminated prior to use and between sampling locations. Decontamination procedures included scrubbing the sampling equipment in an Alconox and tap water solution followed by rinsing with deionized water.

Tetra Tech oversaw PES collect two soil gas, five soil, and 27 groundwater samples, including two duplicates and one equipment rinsate, with the use of a Geoprobe<sup>®</sup>. The sampling locations are shown on Figure 1 in Attachment B. These samples were all analyzed on site for VOCs. All samples were collected from about 8 feet bgs. Initially, only soil gas and possibly soil samples were going to be collected with the Geoprobe<sup>®</sup>. However, the groundwater was shallow at most of the sampling locations (less than 3 feet bgs) and therefore a decision was made to switch to sampling groundwater, when encountered, instead of soil gas. Five of the 27 groundwater samples collected were also submitted for confirmatory VOC analysis. All sampling results will be discussed in the data summary, which will be submitted under separate cover. All nondisposable sampling equipment was decontaminated prior to use and between sampling locations. Decontamination procedures included scrubbing the sampling equipment in an Alconox and tap water solution followed by rinsing with deionized water.

### **OBSERVATIONS**

Tetra Tech noted the following observations during sampling and oversight activities:

• The following monitoring wells are damaged and cannot be sampled: MW-1, located next to the Diesel Servicing Facility; MW-2, located east of the Babbit Shop; and MW-8, located west of the Old Transformer Storage Area.

- The following monitoring wells could not be located: MW-R, allegedly located south of Store No. 1; MW-2, allegedly located north of the New Transformer Storage; MW-16, allegedly located east of the Power House; MW-7, allegedly located west of the Old Transformer Storage Area; and MW-5, allegedly located east of the Research and Development Lab.
- Monitoring well MW-U has almost completely silted in. The well was bailed dry after only purging 0.75 gallon.
- Both of the surface soil samples collected in the Acetylene Sludge Pits exhibited strong odors and readings greater than 2,000 parts per million (ppm) on the photoionization detector. The breathing zone remained below 5 ppm.
- Sampling locations for AOC 6 (Chemical Storage Building) were omitted because
  according to UPRR personnel, the building sat where the concrete pad for the
  hazardous waste storage area (SWMU 8) was located. Samples were collected at
  SWMU 8.
- MW-B was originally going to be sampled; however, due to free product (diesel fuel) on the groundwater, Mr. Herstowski decided to omit this sample.
- MW-M was sampled in place of MW-1 because MW-1 was damaged and could not be sampled.
- MW-2 was not sampled due to its close proximity to railroad tracks. UPRR personnel stated that no samples are to be collected within 25 feet of railroad tracks.

#### **SUMMARY**

Tetra Tech collected 15 groundwater samples, including one field duplicate, and seven surface soil samples, including one field duplicate and one equipment rinsate sample, for confirmatory laboratory analyses at the UPRR Facility. Tetra Tech oversaw PES collect two soil gas, five soil, and 27 groundwater samples, including two duplicates and one equipment rinsate, with the use of a Geoprobe®. These samples were all analyzed on site for VOCs. Five of the 27 groundwater samples that were collected by PES were also submitted for confirmatory VOC analysis. This sampling occurred on August 24 through 26, 1998. The confirmatory samples were all delivered to the EPA Region 7 laboratory on August 26 and 27, 1998. Field sheets are provided in Attachment C. The results of all of the on-site and off-site data will be discussed in a data summary, which will be

submitted under a separate cover. Attachment D contains photographs taken during the sampling event.

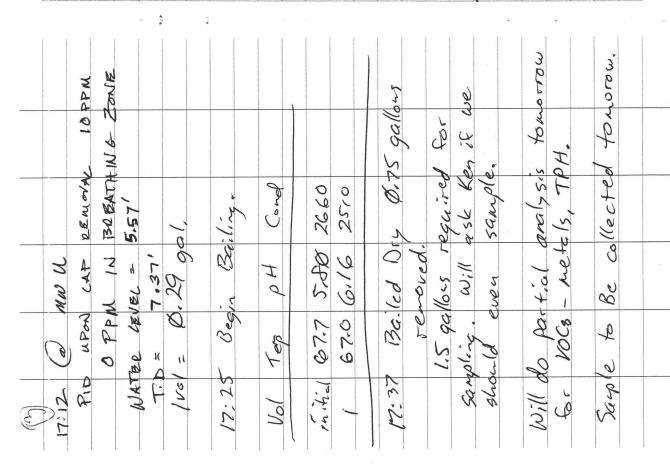
# **ATTACHMENTS:**

- A Field Logbooks
- B Figure 1
- C Field Sheets
- D Photographic Log

ATTACHMENT A

FIELD LOGBOOKS

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Tori Phon	14:55	
Curt Enos	BECKN BAIRIN	BAINNG WELL
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Ken Herstauski - EPA WAM also present.	COND	(2007) - (2007)
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to Diesel Free product.	TEMP = 61.4	
	Ph. 26.91	
	CN02 1815/	



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EPAID NO: ADHI3-00X

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Q 8-25-98	8:37 (2) NATER LEVEL = 5.35" 8:45 Sample Collected	A # O	well bailed dry. Could not collect for SVOCS, Pest.	9,30 Calibrated the PID.	at MW-Y - will take level readings	Ken Hartouski + Kieth	Water level = 3.74 @ 9:41.	eding - 152pm	Oppm 14 0	101 100 100 100 100 100 100 100 100 100	10:12 4921 600 6.91 5160 10:11 6921 68.8 6.01 4424 11:21 Dan ( 67.3 6.23 4216

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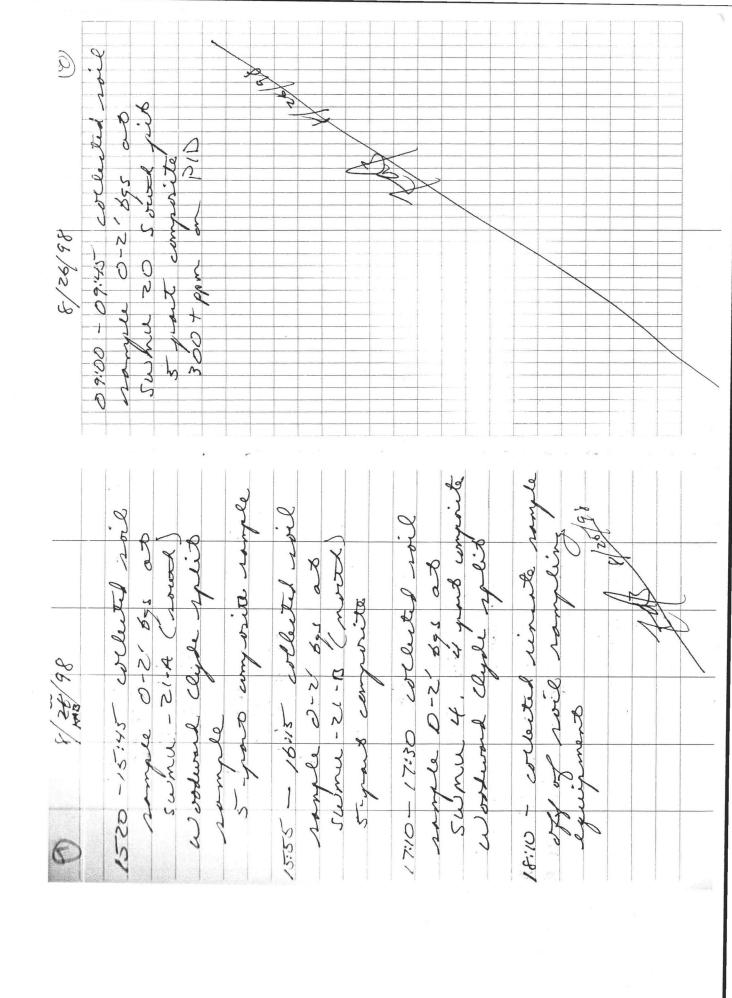
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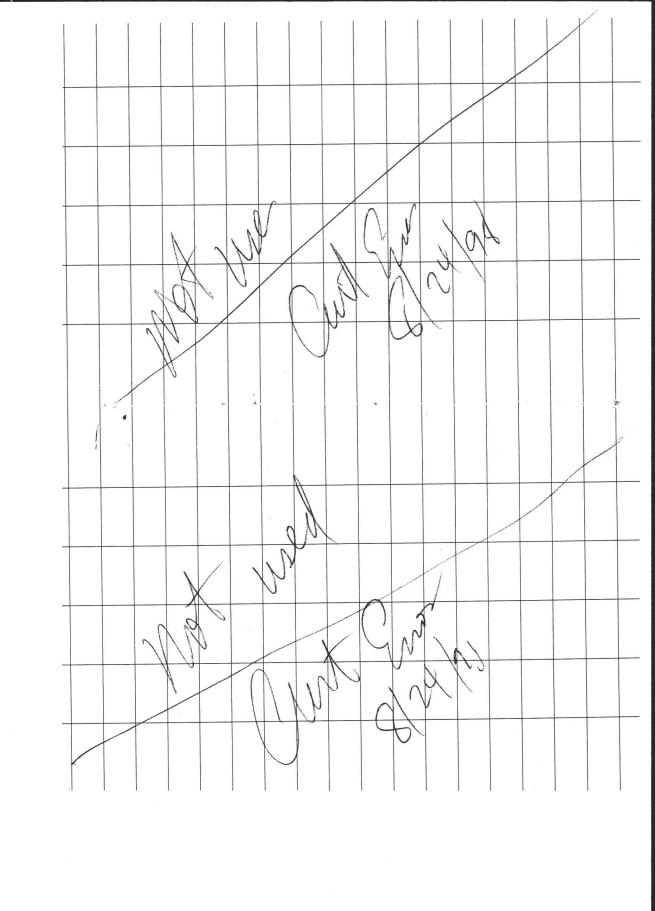
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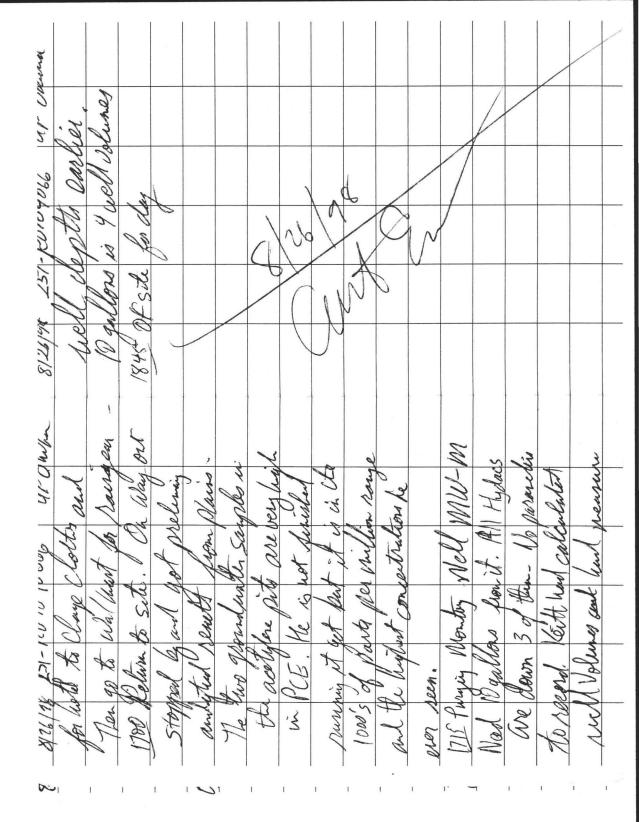
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costal sund and the bloom slope	. Oblivated solvest shell in
	look, Will sand down sure las
1415 No water of S6 on don't	arguin sort stud on.
2	affect Address groundante
Collected a soil with rook ties	of SWMu-4-6W-2 Jargent
Will attend a noundurate also	0
	1550 Were to Subur 4-66-1
Water was successfull collected here	(mouth was by solvent & courte
Soil without be ambused	tanks, Faint wind ober, Jesse
The role	challe sobat. No flow goil very
1430 Mar L SW Mu 4- S6-2	-
Made 3 attempt sofundat 2 . 5 ans	what from open have

Lan 1/2/0668 MT Unuman possible motor oil Priver 3 15 10 on tubind 5/2/2 Jab Otto m / 168 1880 251-KO7048666 UT UMA Material Ques Strangel Sum-8 S CA Jone Line am 3 1113

8726/78 23/5 14 14 74 666 UT granns good loading clock of Wheel Shop glast groundwater from 9 feet.	SWM4-13-60-2 and Swm 13-60-1	whole wash could prove touch	wed in the white to remore grave	opposation I we were yould scool	840 Mare to Swan 18-56 3 on	Sock side of wheel stop Collect grownlywater out from 9 feet
8/26/98 15/20184 4666 U.P. CMMM. OBO On-site, next w/ Plais. Hook. work Mr. Dibe ognerhous margar	at the Steet Can Shop to Mule sure we would not be in thousay.	able with	eith and how here	The will fell out cock and the Sangles to the fall	Ope War to San 13-660-2 Collect aroundwater from gleet every	plen & Sung

49 Shufe 8/26/98  Note 18 Shum	lled a souther of Swm 36  25 - 41 No 640 m 64  26 - 41 No 640 m 64  2nd of Stell Cen Swo 36  Len Show 36  2nd open and lang by  Ely 14 14 DB 624  Siliagness column. Cum;  Siliagness column. Cum;  Siliagness column. Cum;
at SUMM' 13-56-4. Methods pin brex.  oder to it. Plans gols  My cloub or kirth at MW-11  Man to SUMM 16, 56-4  Starband. 9  Starband. 9  Starband. 9  Onthisia of Steel on Story  Calibration gold	Clear from Eco only. Eary Chrome. Clear P is information software. Calibration advection Scott 10 grs. Sturbands. Unixe BTex 10:00 in

Stayy 231-1001040660 seponnem 165 1415 Sextup at SUMY 20-64-X2s. Collect with five of feet in 160-X2s. South Hand at 1420 Stroy	to See with	6 Levels of Jest 1995. 150 Phins of Site, Sain & hoth is the Marking Senzing with wells. Keth is set up Mar 4: Just get
TCE Standard 10 ppm PCE TCA at ppm month of the ofter compands yearst in Standards. Soil and asker	to other a such ground unter Sample to spet with the off Site (abouton of other to Wooden)	12/45 Collect Swam 4-64-4 12/45 Mil Site confurmation 2 13/45 Set was Mar 100 St-2/1

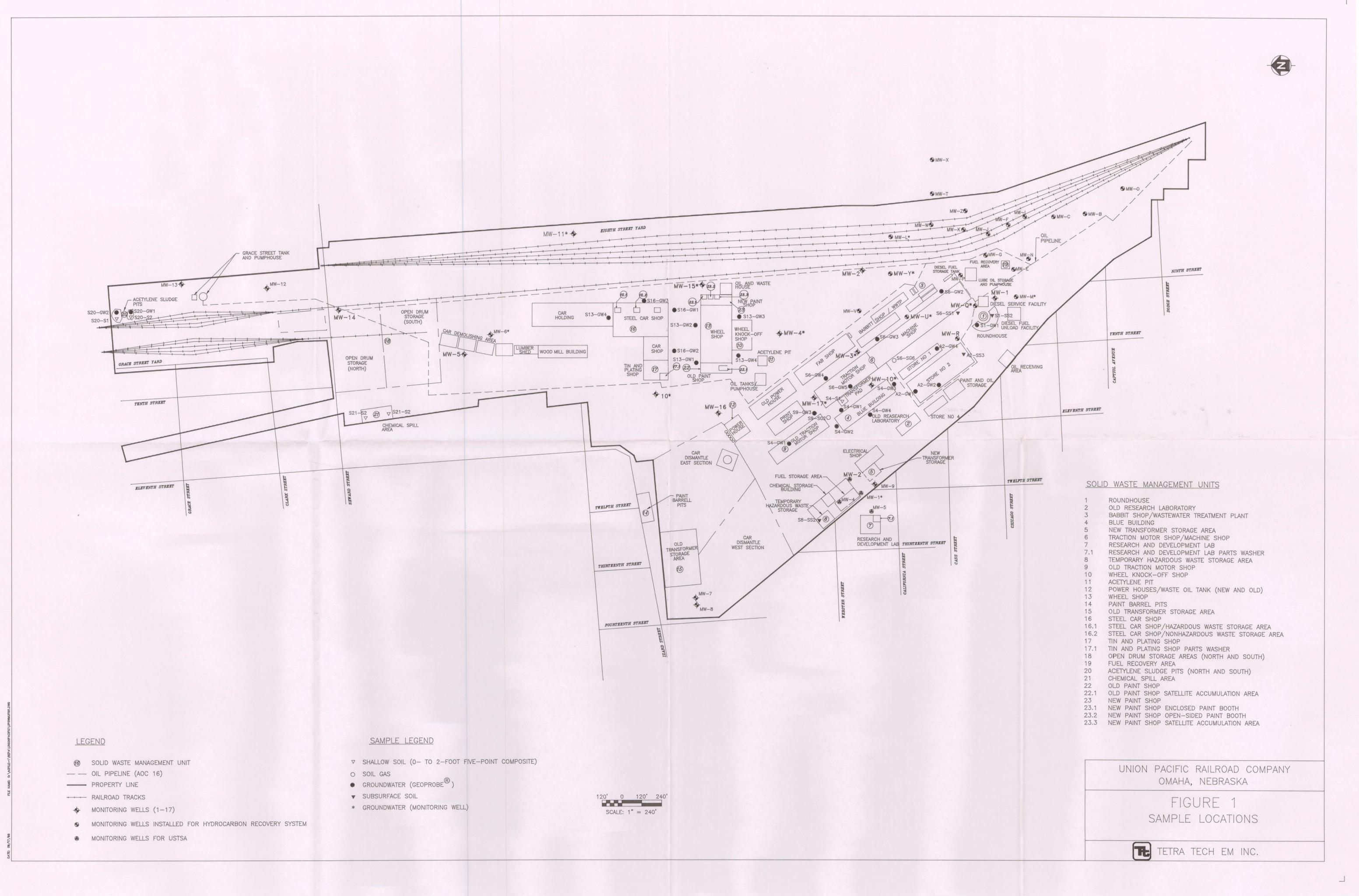


ATTACHMENT B

FIGURE 1

ATTACHMENT C

FIELD SHEETS



L

### FIELD SHEET

U.S.	ENVIRONMEN	<b>IATI</b>	PROTI	ECTION	<b>AGENC</b>	Y, REG	ION VI	I	
ENVIRONMENTAI	SERVICES	DIV.	25	FUNSTO	N RD.	KANSAS	CITY,	KS	66115

ENVIRONMENTAL	SERVICES DIV.	25 FUI	NSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: AI	OH13 SAMNO: 003 (	occ: _	MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UN LOCATION: OMAHA	NION PACIFIC RAII	LROAD E PRO	JECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: / LOCATION: CASE/BATCH/SMO: STORET/AIRS NO:	1W-Q /NI	E LAB:	DATE TIME FROM REF PT  BEG: \$\frac{8}{14} \begin{array}{c c c c c c c c c c c c c c c c c c c
CONTAINER 2-40 ML VIALS CUBI GLASS GLASS 1 L CUBITAINER	PRESERVATIVE HCL +COOL (4 C) 5 ML HNO3 ICED ICED 1:1 HN03 1:1 HN03 1:1 HN03 1:1 HN03	MGP WV WM WP WS WM27 WM30 WM32 WM33	NAME WATER VOLATILES METALS PESTICIDES SEMIVOLATILES ARSENIC, TOTAL, BY AA LEAD, TOTAL, BY AA SELENIUM, TOTAL, BY AA
	SUPERFUND ONLY:		TE IDENTIFIER: OPERABLE UNIT:
, ,	Ann. from		

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 004 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES:       MW-17         LOCATION:       NE         CASE/BATCH/SMO:       LAB:         BEG:       8 /24/98 /8:00 EAST:         END:       3 /24/98 /8:30 NORTH:         STORET/AIRS NO:       Sampled:         18:40       DOWN:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

sheen or water.

DBVEL

# FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 005 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: MW-U  LOCATION:  CASE/BATCH/SMO:  STORET/AIRS NO:  DATE TIME FROM REF PT  BEG: 8/24/98 : EAST:  END: 8/25/98 P:75 NORTH:  DOWN:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME 2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:
Water very tathid with PVC pieces in it.

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 006 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES:       MW-Y       DATE       TIME       FROM REF PT         LOCATION:       NE       BEG:       // .:       EAST:         CASE/BATCH/SMO:       LAB:       END:       // .:       NORTH:         STORET/AIRS NO:       DOWN:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:
N - 1/2 . A. 12 - 52 - 1:

PID = 152 ppn rax reading very silty water.

SAMPLE COLLECTED BY :

DUF

DRAFT

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

25 FUNCTION RD. KANSAS CITY, 1 ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 007 QCC: \_ MEDIA: WATER PL: HARRIS, DIANE ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE: SAMPLE DES: MW-L ANALYSIS REQUESTED: ANALYSIS REQUESTED:

CONTAINER PRESERVATIVE MGP NAME

2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES

CUBI 5 ML HNO3 WM METALS

GLASS ICED WP PESTICIDES

GLASS ICED WS SEMIVOLATILES

1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA

1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA

1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA

1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA

1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA

2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL

128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT: NO Volatiles when tested by PID.

First Bailer hat reddish Grange natter in the water

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 008 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES:M \omega -/\omega
CONTAINER PRESERVATIVE MGP NAME 2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES CUBI 5 ML HNO3 WM METALS GLASS ICED WP PESTICIDES GLASS ICED WS SEMIVOLATILES 1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA 1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA 1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA 1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA 1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA 2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL 128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:  Well did not have a well plug or cap.  Well has sewage odor + in close proximity.  to a 10' combined sewer. Also had dead insects (wasps) in water.
insects (wasps) in water.

# FIELD SHEET

ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 009 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES ON Y  CUBI 5 ML HNO3 WM METALS  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:  Geoprabe groundwater sample location.  Geoprabe GWMW #4, location.

#### FIELD SHEET

U.S.	ENVIRONMEN	TAL	PROTI	ECTION .	AGENC'	Y, REG	ION VI	[	
ENVIRONMENTAL	SERVICES	DIV.	25	FUNSTO	N RD.	KANSAS	CITY,	KS	66115

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 010 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: SWMV 64-6W61  LOCATION: Buc Building NE BEG: 8 / 25/ 56 16:15 EAST:  CASE/BATCH/SMO: NE END: : NORTH:  STORET/AIRS NO: DOWN:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES OF ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS IGED WS SEMIVOLATILES  L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  L CUBITAINER 1:1 HNO3 WM32 THALLIUM, TOTAL, BY AA  L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

Ceoprobe groundwate sample location 1
at SWMU#4, location 1

CAE

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 011 QCC: F MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES: TRIP BLANK LOCATION:  CASE/BATCH/SMO:  STORET/AIRS NO:  ANALYSIS REQUESTED:  CONTAINER  PRESERVATIVE  MGP  NAME  DATE  TIME FROM REF PT  EAST:  NORTH:  DOWN:  COOLER WM SAMPLE
ANALYSIS REQUESTED:
CONTAINER PRESERVATIVE MGP NAME COSTER WAS SAMPLED
2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES
2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

DRAFT FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 012 QCC: \_ MEDIA: WATER PL: HARRIS, DIANE ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE: SAMPLE DES: We //- /Ø SAMPLE DES: We //- /Ø

LOCATION: NE BEG: // : EAST:

CASE/BATCH/SMO: // LAB: END: 8/5/98 6:40 NORTH: STORET/AIRS NO: ANALYSIS REOUESTED: CONTAINER PRESERVATIVE MGP NAME CONTAINER
2-40 ML VIALS
CUBI
5 ML HNO3
WM METALS
GLASS
GLASS
ICED
WS SEMIVOLATILES
1 L CUBITAINER
1:1 HNO3
WM27
ARSENIC, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM30
LEAD, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM32
SELENIUM, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM33
THALLIUM, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM33
THALLIUM, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM33
THALLIUM, TOTAL, BY AA
1 L CUBITAINER
1:1 HNO3
WM33
THALLIUM, TOTAL, BY AA
1 L CUBITAINER
COOL (4 C)
WS72
EXTRACTABLE PETROLEUM PROD 128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

PID = 19.5 max reading in the casing.

Also collected MSMSD into additional I Gal Auber Jar.

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 98 ACTNO: ADH13 SAMNO: 013 QCC: F MEDIA: WATER PL: HARRIS, DIANE

ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:

SAMPLE DES: TRIP BLANK DATE TIME FROM REF PT
LOCATION: NE BEG: SEAST:
CASE/BATCH/SMO: STORET/AIRS NO: NORTH: DOWN:

ANALYSIS REQUESTED: Pat in Coder
CONTAINER PRESERVATIVE MGP NAME
2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES
-2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 014 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: MW-( LOCATION: DATE TIME FROM REF PT LOCATION: BEG: / : EAST: CASE/BATCH/SMO: // LAB: END: 8/25/78 /8:/5 NORTH: STORET/AIRS NO: DOWN:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 THALLIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:  Daplicate Collected Here
PID = 160 ppm Slight Sheen on Water.

Dar

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 015 QCC: F MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: TRIP BLANK EQUIPMENT  LOCATION:  NE PROJECT NUM: A53 PT: LONGITUDE:  DATE TIME FROM REF PT  LOCATION:  CASE/BATCH/SMO:  LAB:  STORET/AIRS NO:  DOWN:
ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME 2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

Equipment rinsate blank
of Geoprobe Equipment

DRAFT FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 016 QCC: \_ MEDIA: WATER PL: HARRIS, DIANE ACTIVITY DES: UNION PACIFIC RAILROAD NE PROJECT NUM: A53 PT: LONGITUDE: LOCATION: OMAHA DATE TIME FROM REF PT ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME 2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES 5 ML HNO3 WM WP PESTICIDES
WS SEMICO METALS CUBI ICED GLASS SEMIVOLATILES GLASS ICED GLASS
1 L CUBITAINER 1:1 HN03

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

nw-11
1.6 ppm on PID

extra Volume collected

2 40 ML VIALS HCL + COOL (4 C) WV86 HYDROCARBONS, TOTAL DETROL 128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD

SAMPLE COLLECTED BY : \_ F. Brown

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 017 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS  GLASS ICED WP PESTICIDES  GLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

0 ppm mw-6

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

ENVIRONMENTAL SERVICES DIV. 25	5 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 018 QCC	C: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILRO LOCATION: OMAHA NE	PROJECT NUM: A53 PT: LONGITUDE:
SAMPLE DES: MW-IS LOCATION: NE CASE/BATCH/SMO: // I STORET/AIRS NO:	DATE TIME FROM REF PT BEG:
ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MC 2-40 ML VIALS HCL +COOL (4 C) WV CUBI 5 ML HNO3 WM GLASS ICED WS GLASS ICED WS 1 L CUBITAINER 1:1 HNO3 WM	WATER VOLATILES METALS PESTICIDES SEMIVOLATILES M27 ARSENIC, TOTAL, BY AA M30 LEAD, TOTAL, BY AA M32 SELENIUM, TOTAL, BY AA M33 THALLIUM, TOTAL, BY AA M34 HYDROCARBONS, TOTAL PETROL
COMMENTS: FOR SUPERFUND ONLY: SU	JBSITE IDENTIFIER: OPERABLE UNIT:

mw-15

extra volume collected

FIELD SHEET

	ENTITO ONMENDAT DO	OTECTI 25 FUN	ON ACENCY DE	EGION VII AS CITY, KS 6	56115
FY: 98 ACTNO: AD	H13 SAMNO: 019 Q	cc:_	MEDIA: WATER	PL: HARRIS,	DIANE
ACTIVITY DES: UN LOCATION: OMAHA				REF LATITUDE PT: LONGITUI	
SAMPLE DES: LOCATION: CASE/BATCH/SMO: STORET/AIRS NO:	<u>πω-4</u> NE	LAB:	BEG: 8	DATE TIME /26/98 /6:03 // :	FROM REF PT EAST: NORTH: DOWN:
ANALYSIS REQUEST CONTAINER 2-40 ML VIALS CUBI GLASS GLASS 1 L CUBITAINER 1 L CUBITAINER 1 L CUBITAINER 1 L CUBITAINER 2-40 ML VIALS 128 OZ GLASS COMMENTS: FOR S	PRESERVATIVE HCL +COOL (4 C) 5 ML HNO3 ICED ICED 1:1 HN03 1:1 HN03 1:1 HN03 1:1 HN03 COOL (4 C)	WV WM WP WS WM27 WM30 WM32 WM33 WV86 WS72	WATER VOLATILE METALS PESTICIDES SEMIVOLATILES ARSENIC, TOTAL LEAD, TOTAL, E SELENIUM, TOTAL THALLIUM, TOTAL HYDROCARBONS, EXTRACTABLE PE	L, BY AA BY AA AL, BY AA AL, BY AA TOTAL PETROI ETROLEUM PROI	)
COMMENTS: FOR S	OPERFUND ONLY:	208211	E IDENTIFIER:	OPERABLE	ONIT:

split sample with woodward clyde

DRAFT FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 020 QCC: \_ MEDIA: WATER PL: HARRIS, DIANE \_\_\_\_\_ ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: NE PROJECT NUM: A53 PT: LONGITUDE: LOCATION: OMAHA SAMPLE DES: MW-3 DATE TIME FROM REF PT LOCATION:

NE

BEG: 8/26/98 17:25 EAST:

CASE/BATCH/SMO:

LAB:

END:

NORTH: STORET/AIRS NO: DOWN: ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME 2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES MW 5 ML HNO3 CUBI METALS GLASS ICED WP PESTICIDES WS SEMIVOLATILES GLASS ICED 1 L CUBITAINER 1:1 HN03 WM27 ARSENIC, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM30 LEAD, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM32 SELENIUM, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM33 THALLIUM, TOTAL, BY AA 2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD

DRAFT FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 022 QCC: MEDIA: WATER PL: HARRIS, DIANE ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: NE PROJECT NUM: A53 PT: LONGITUDE: LOCATION: OMAHA SAMPLE DES:  $m\omega - M$ DATE TIME FROM REF PT NE BEG: <u>\$ /26 /98 /7 : 50 EAST:</u>
LAB: END: \_\_\_\_\_\_\_ NORTH: LOCATION: CASE/BATCH/SMO: STORET/AIRS NO: DOWN: ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME HCL +COOL (4 C) WV WATER VOLATILES
5 ML HNO3 WM METALS 2-40 ML VIALS CUBI 5 ML HNO3 WM PESTICIDES ICED WP GLASS WS SEMIVOLATILES ICED GLASS 1 L CUBITAINER 1:1 HN03 WM27 ARSENIC, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM30 LEAD, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM32 SELENIUM, TOTAL, BY AA
1 L CUBITAINER 1:1 HN03 WM33 THALLIUM, TOTAL, BY AA 2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL

128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:\_\_\_ OPERABLE UNIT:\_\_\_

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:\_\_\_ OPERABLE UNIT:\_\_\_

very high concentration

5. 12:4

SAMPLE COLLECTED BY: Plains Environmental

DRAI	T	
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FY:	98	ACT

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U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115	
FY: 98 ACTNO: ADH13 SAMNO: 025 QCC: _ MEDIA: WATER PL: HARRIS, DIANE	
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA NE PROJECT NUM: A53 PT: LONGITUDE:	_
SAMPLE DES: Swmu 20 Gw-Z  LOCATION: NE BEG: \$/26/98 /4:48 EAST:  CASE/BATCH/SMO: LAB: END: DOWN:  STORET/AIRS NO: DOWN:	PT
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  GUBI 5 ML HNO3 WM METALS ZO  GLASS ICED WP PESTICIDES  CLASS ICED WS SEMIVOLATILES  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA ZO  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA ZO  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA ZO  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA ZO  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA ZO  2 40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL COOL  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD	

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:\_\_\_ OPERABLE UNIT:\_\_\_

N. Pit very high concentration

SAMPLE COLLECTED BY : Plains Environmental

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 026 QCC: _ MEDIA: WATER PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  2-40 ML VIALS HCL +COOL (4 C) WV WATER VOLATILES  CUBI 5 ML HNO3 WM METALS 26  GLASS ICED WP PESTICIDES 26  GLASS ICED WS SEMIVOLATILES 26  1 L CUBITAINER 1:1 HNO3 WM27 ARSENIC, TOTAL, BY AA 26  1 L CUBITAINER 1:1 HNO3 WM30 LEAD, TOTAL, BY AA 26  1 L CUBITAINER 1:1 HNO3 WM32 SELENIUM, TOTAL, BY AA 26  1 L CUBITAINER 1:1 HNO3 WM33 THALLIUM, TOTAL, BY AA 26  2-40 ML VIALS HCL +COOL (4 C) WV86 HYDROCARBONS, TOTAL PETROL 66  128 OZ GLASS COOL (4 C) WS72 EXTRACTABLE PETROLEUM PROD 26
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

low concentration

FIELD SHEET

	NVIRONMENTAL PROSERVICES DIV. 2				6115	
FY: 98 ACTNO: ADH1	13 SAMNO: 030 QC	C: <u>F</u> MEDIA:	WATER PL:	HARRIS,	DIANE	
ACTIVITY DES: UNIC	NE	PROJECT NU		LATITUDE LONGITUD		
SAMPLE DES: Soi/ LOCATION: CASE/BATCH/SMO: STORET/AIRS NO:			DATE BEG: / / END: 8 /25/9	:	FROM REF EAST: NORTH: DOWN:	
1 L CUBITAINER 1: 1 L CUBITAINER 1: 1 L CUBITAINER 1: 1 L CUBITAINER 1: 2-40 ML VIALS HO	RESERVATIVE MORE TO THE METER T	M METALS P PESTIC S SEMIVO M27 ARSENI M30 LEAD, M32 SELENI M33 THALLI V86 HYDROC		Y AA Y AA <del>L PETROL</del>		

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:\_\_\_ OPERABLE UNIT:\_\_\_

Field Blank

SAMPLE COLLECTED BY: Fine Stown

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 144 QCC: _ MEDIA: SOIL PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES:
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  GLASS ICED SS SEMIVOLATILES  2-40 ML VIALS COOL (4 C) SV54 HYDROCARBONS, TOTAL PETROL  8 OZ GLASS COOL (4 C) SS70 EXTRACTABLE PETROLEUM PROD  G/ass SCED SM MCTRIS  G/ass SCED SP PESTICIALS
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:  Swmu - 20 S. Pit
5 part composite
300+ ppm on PID

DRAFT FIELD SHEET	
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115	
FY: 98 ACTNO: ADH13 SAMNO: 145 QCC: _ MEDIA: SOIL PL: HARRIS, DIANE	
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA PROJECT NUM: A53 PT: LONGITUDE:	
SAMPLE DES: SWMX 20-N.S. PIT  LOCATION:  CASE/BATCH/SMO:  STORET/AIRS NO:  DATE TIME FROM REI  EAST:  EAST:  NORTH:  DOWN:	F P
ANALYSIS REQUESTED:  CONTAINER PRESERVATIVE MGP NAME  GLASS ICED SS SEMIVOLATILES  2 40 ML VIALS COOL (4 C) SV54 HYDROCARBONS, TOTAL PETROL  8 OZ GLASS COOL (4 C) SS70 EXTRACTABLE PETROLEUM PROD  1 SM MATALS  COMMENTS: FOR SUPERFUND ONLY;  SUBSITE IDENTIFIER: OPERABLE UNIT:	_
SWMU 20 -US PTT	
2189 ppm PID finate alliquents 5 prent composite	
wordward-Clyde split	
Sampler K.B.	

DRAI	T	
I	ENV:	IRO
FY:	98	AC
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### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115	
FY: 98 ACTNO: ADH13 SAMNO: THE QCC: _ MEDIA: SOIL PL: HARRIS, DIANE	
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: LOCATION: OMAHA PROJECT NUM: A53 PT: LONGITUDE:	_
SAMPLE DES: SWMU 2 CJ -NS. PTT DATE TIME FROM REF LOCATION: Q OLD NE BEG: / : EAST: CASE/BATCH/SMO: // LAB: END: 8/25/48 /2:10 NORTH: DOWN:	PI
ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME GLASS ICED SS SEMIVOLATILES 2-40 ML VIALS COOL (4 C) SV54 HYDROCARBONS, TOTAL PETROL	
COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:	
DUP SWMU 20-N. S. Pitt	

(A.N 19fgmoz

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DR			

#### FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 98 ACTNO: ADH13 SAMNO: 150 QCC: _ MEDIA: SOIL PL: HARRIS, DIANE
ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
SAMPLE DES: SWM421-A (South) LOCATION: CASE/BATCH/SMO: STORET/AIRS NO:  DATE TIME FROM REF PT EAST: EAST: END: 8/26/93   5   45   15   15   15   15   15   15
ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME GLASS NONE SP PESTICIDES
comments: for superfund only: subsite identifier: operable unit:
Start 15:20 Finish 15:45 woodward - eydl split
sampler K.B. Behind boiler company
Bound Dour - 22111

KVA

DRAFT FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115 FY: 98 ACTNO: ADH13 SAMNO: 151 QCC: MEDIA: SOIL PL: HARRIS, DIANE ACTIVITY DES: UNION PACIFIC RAILROAD REF LATITUDE: NE PROJECT NUM: A53 PT: LONGITUDE: LOCATION: OMAHA SAMPLE DES: SWMU TIME FROM REF PT DATE LOCATION: BEG: EAST: END: 8 CASE/BATCH/SMO: LAB: STORET/AIRS NO: ANALYSIS REQUESTED: CONTAINER PRESERVATIVE MGP NAME GLASS SP PESTICIDES NONE COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT: Start 15:55 Finish 16116 5 part composite Samples K.R.

DRAFT	FIELD SHEET U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
EN	VIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115
FY: 9	8 ACTNO: ADH13 SAMNO: 152 QCC: _ MEDIA: SOIL PL: HARRIS, DIANE
LOCAT	ITY DES: UNION PACIFIC RAILROAD REF LATITUDE:
CASE/	E DES: SWM4 H  ION: BATCH/SMO: T/AIRS NO:  DATE TIME FROM REF PT EAST: EAST: DOWN: DOWN:
	SIS REQUESTED: INER PRESERVATIVE MGP NAME NONE SP PESTICIDES (ACBs)
COMME	NTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:
٢	+ part composite
	start 17:10
	Finish 17:30
	woodward-dyde split
	sampler KB

KV+

ATTACHMENT D

PHOTOGRAPHIC LOG



Photo No: 01 Direction Facing: East Photographer: Teri H. Pham Date/Time: 08/24/98; 1445

Description: PES setting up to collect soil gas sample at SWMU8-SS2.



Photo No: 02 Direction Facing: East Photographer: Teri H. Pham Date/Time: 08/24/98; 1545

Description: PES collecting groundwater sample at SWMU9-GW1.



Photo No: 03 Direction Facing: Southwest Photographer: Teri H. Pham Date/Time: 08/24/98; 1700 Description: PES collecting soil gas sample at SWMU9-SG2.

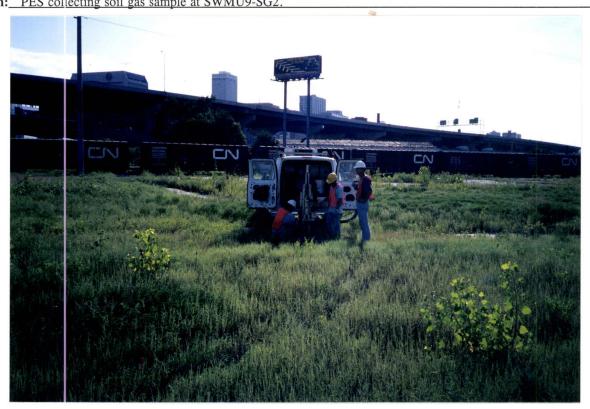


Photo No: 04 Direction Facing: West Photographer: Teri H. Pham Date/Time: 08/24/98; 1750

Description: PES collecting groundwater sample at SWMU1-GW1.



Photo No: 05 Direction Facing: Northeast Photographer: Teri H. Pham Date/Time: 08/25/98; 0945 Description: PES collecting groundwater sample at SWMU6-GW5.



Photo No: 06 Direction Facing: Northwest Photographer: Teri H. Pham Date/Time: 08/25/98; 0950

Description: A view from SWMU6; the former Blue Building (depicted as the large stain in the left of the photo), Monitoring Well 10 (depicted by the blue 55-gallon drum), and the Print Shop (seen in the background) are shown in this photograph.



Photo No: 07 Direction Facing: North Photographer: Teri H. Pham Date/Time: 08/25/98; 0950 Description: A view from SWMU6; the Wheel Shop is shown in the background of this photograph.



Photo No:08Direction Facing:SouthPhotographer:Teri H. PhamDate/Time:08/25/98;0950Description:A view from SWMU6; the grassy area is AOC2 and the Roundhouse is shown in the background of this photograph.



Photo No: 09 Direction Facing: South Photographer: Teri H. Pham Date/Time: 08/25/98; 1000 Description: PES collecting soil gas sample at SWMU6-SG6.



Photo No: 10 Direction Facing: Northeast Photographer: Teri H. Pham Date/Time: 08/25/98; 1045

Description: PES collecting groundwater sample at AOC2-GW4.



Photo No: 11 Direction Facing: Southeast Photographer: Teri H. Pham Date/Time: 08/25/98; 1700 Description: PES redrilling SWMU8-SS2; collected soil sample.



Photo No: 12 Direction Facing: South Photographer: Teri Pham Date/Time: 8/25/98; 1745

Description: PES collectiong groundwater sample at SWMU16-GW1.



Photo No: 13 Direction Facing: East Photographer: Teri H. Pham Date/Time: 08/26/98; 0900

Description: PES collecting groundwater sample at SWMU13-GW2.



Photo No: 14 Direction Facing: East Photographer: Teri H. Pham Date/Time: 08/26/98; 0920

Description: PES collecting groundwater sample at SWMU13-GW1.

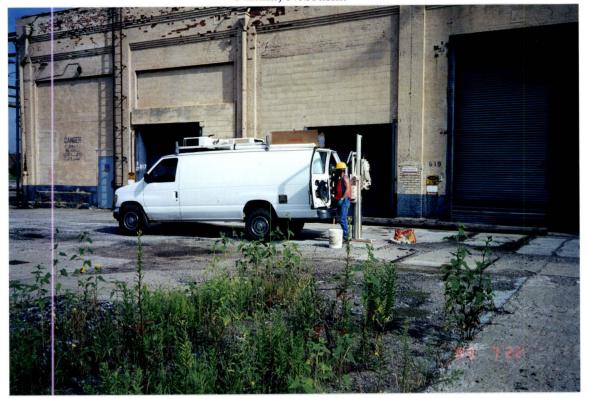


Photo No: 15 Direction Facing: North Photographer: Teri H. Pham Date/Time: 08/26/98; 1000 Description: PES collecting groundwater sample at SWMU13-GW4.



Photo No: 16 Direction Facing: South Photographer: Teri H. Pham Date/Time: 08/26/98; 1130

Description: PES collecting groundwater sample at SWMU16-GW4.



Photo No: 17 Direction Facing: South Photographer: Teri H. Pham Date/Time: 08/26/98; 1135 Description: PES collecting groundwater sample at SWMU16-GW3.



Photo No: 18 Direction Facing: Southwest Photographer: Teri H. Pham Date/Time: 08/26/98; 1200

Description: PES collecting confirmation groundwater sample at SWMU4-GW4.



Photo No: 19 Direction Facing: Southwest Photographer: Teri H. Pham Date/Time: 08/26/98; 1345



Photo No: 20 Direction Facing: West Photographer: Teri H. Pham Date/Time: 08/26/98; 1415

Description: PES collecting groundwater sample at SWMU20-GW1.



Photo No: 21 Direction Facing: East Photographer: Teri H. Pham Date/Time: 08/26/98; 1445

Description: PES collecting groundwater sample at SWMU20-GW2.



Photo No: 22 Direction Facing: South Photographer: Teri H. Pham Date/Time: 08/26/98; 1500

Description: PES in mid ground at SWMU20-GW2.



Photo No: 23 Direction Facing: Southwest Photographer: Teri H. Pham Date/Time: 08/27/98; 1200 Description: Aerial panoramic view of the UPRR facility taken from bridge near southeast edge of site.

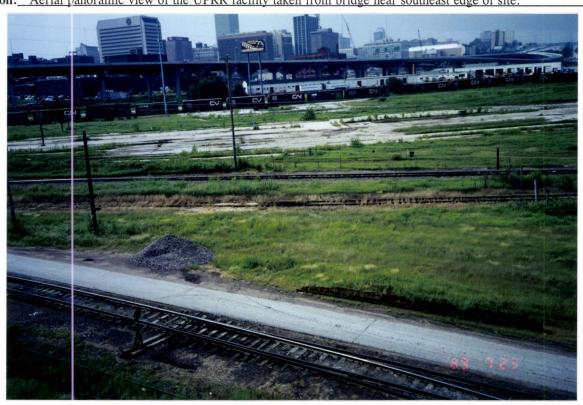


Photo No: 24 Direction Facing: Southwest Photographer: Teri H. Pham Date/Time: 08/27/98; 1200 Description: Aerial panoramic view of the UPRR facility taken from bridge near southeast edge of site.



Photo No: 25 Direction Facing: West Photographer: Teri H. Pham Date/Time: 08/27/98; 1200 Description: Aerial panoramic view of the UPRR facility taken from bridge near southeast edge of site.



Photo No: 26 Direction Facing: Northwest Photographer: Teri H. Pham Date/Time: 08/27/98; 1200

Description: Aerial panoramic view of the UPRR facility taken from bridge near southeast edge of site.



Photo No: 27 Direction Facing: North Photographer: Teri H. Pham Date/Time Description: Aerial panoramic view of the UPRR facility taken from bridge near southeast edge of site. Date/Time: 08/27/98; 1200